

## **3.0 FUNCTIONS RELATED TO TECHNICAL OPERATIONS**

### **3.1 Initiation Procedures**

User must first logon to GCCS and then select the JEPES icon. After JEPES is initiated, the user is asked to enter a security classification. Once the classification is entered, the JEPES Main Menu appears. Refer to the JEPES TUG, reference b, and Section 5 for information on running JEPES.

**Note:** The TUG still contains the JEPES PC Version 3.0 screens. These screens are slightly different than the JEPES GCCS Version 4.0 screens; however, processing still remains the same and the TUG is still useful to novice users.

### **3.2 Input Requirements**

JEPES operates from ORACLE tables. Data are loaded into ORACLE tables from four sources: the JOPES Core database, Services' RPI files, keyboard entries, and outputs from the JEPES/Ada programs.

#### **3.2.1 Frequency of Input**

RPI data from the Services are provided on a yearly basis. Other input is on an as-required basis by the user. The criteria for order of input is discussed in Section 5.

#### **3.2.2 Origin**

JEPES input is from JEPES ORACLE tables and keyboard entries. The ORACLE tables are built on a relational structure. Processes in JEPES, especially the query (insert, edit, and delete), usually cross-check between two or more ORACLE tables to ensure the accuracy of input.

##### **3.2.2.1 Origin of Input**

Table 3.2.2.1-1 lists the source, the text file name or ORACLE table, and JEPES ORACLE table(s) in which information resides. The "D" or "I" after the name of the source or text file indicates whether this information is plan-dependent or -independent. This information is extremely useful when adding a new OPLAN.

Table 3.2.2.1-1. Data Sources

Source	ORACLE Table or Text File	JEPES Table
GCCS/TUCHA (D)	Unit_Type	Unit_Equipment
		Unit_Type
	Unit_Type_Cargo_4th	Unit_Equipment
GCCS/TPFDD (D)	Oplan_Force_Rqmt	Deployed_Eng_Sensitive_Unit
		Unit_Type
	Oplan_Force_Rqmt_Loc	Deployed_Eng_Sensitive_Unit
GCCS/Other (I)	Geographic_Location	Deployed_Eng_Sensitive_Unit
		Geoloc_Tab
WWMCCS/CEF (D) (Services)	Asset/Assetus/Assethn	Asset
		War_Damage_Factor
JEPES/Rebasing Function (D)		Base_Complex
		Base_Location
		Base_Fac_Constr_Policy
		Backup_Supply
JEPES/Existing OPLANS (I)		Component
		Engineering_Unit_Capability
		Equipment_Planning_Factor
		Equipment_Type
		Facility_Category
		Facility_Component
		Facility_Requirement
		General_Planning_Factor
JEPES/CINC Engineers (D)		Engineering_Support
		Facility_Category_Substitute
		Plan_Fac_Constr_Policy
		Planner_Input_Requirements
JEPES/Run-Time Options (D)		Attrition_Factor
		Climatic_Factor
		Operation
		Phase_In_Efficiency
		Sill_Substitution
		Time_Period

A listing and description of the inputs, along with the destination ORACLE tables, are described below.

### 3.2.2.1.1      GCCS/TUCHA Data

- a. Unit\_Type Table. This table identifies the type of unit and high-level private automatic exchange (PAX) and cargo information for that unit type. This information is rolled up from the unit type's Table of Organization and Equipment (TOE). Detail is provided for Level II only; i.e., total bulk, oversize, or outsize cargo in short tons (STONs) and measurement tons (MTONs), total bulk POL, etc.. Table 3.2.2.1.1-1 shows the relationship between the GCCS Unit\_Type table and the JEPES tables.

Table 3.2.2.1.1-1. GCCS Unit\_Type Table

GCCS TABLE	GCCS DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Unit_Type	Unt_Cd	Unit_Type	UTC
	Svc_Cd		Service_Code
	Unt_Abbrd_Nm		Unit_Name
	Unt_Authd_Wrti_PrsL_Cqy		Authorized_Personnel
	Unl_Cd		ULC
	Svc_Cd	Unit_Equipment	Service_Code

- b. Unit\_Type\_Cargo\_4th Table. This table identifies Level IV cargo information for a type of unit. At this level of detail, cargo information is defined down to the type of item; i.e., M1A1 Main Battle Tank, HUMMV. This includes length, width, height, and weight (STONs and MTONs to the tenth). **Note:** Within each item type, there may be more than one actual item. Table 3.2.2.1.1-2 shows the relationship between the GCCS Unit\_Equipment\_Type table and the JEPES tables.

Table 3.2.2.1.1-2. GCCS Unit\_Type\_Cargo\_4th Table

GCCS TABLE	GCCS DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Unit_Type_Cargo_4th	Unt_Cd	Unit_Equipment	UTC
	Unt_Cgo_Ty_Itm_Cqy		Equipment_Piece_Count
	Unt_Eqt_Id		Equipment_Identifier_Code

### 3.2.2.1.2      GCCS/TPFDD Data

- a. Oplan\_Force\_Rqmt Table. This table defines an OPLAN's requirement for forces by Op\_Mvtrqt\_Id [Unit Line Number (ULN)]. The ULN is a unique, mandatory identifier for each OPLAN-specific requirement's force record. In addition to the ULN, each force record is assigned a Unt\_Cd [Unit Type Code (UTC)], which is a national (generic) organization of soldiers with personal and unit equipment; i.e., a Light Infantry Company. A ULN force requirement is “sourced” when assigned an actual unit, represented by a Opfrq\_Un\_Id [Unit Identification Code (UIC)]; i.e., 3d Bn, 1st Bde, 29th Infantry Division (L). For organization/sizing purposes, it helps to think of a UTC or UIC as an organization that is assigned a “Commander.” Table 3.2.2.1.2-1 shows the relationship between the GCCS Oplan\_Force\_Rqmt table and the JEPES tables.

Table 3.2.2.1.2-1. GCCS Oplan\_Force\_Rqmt Table

GCCS TABLE	GCCS DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Oplan_Force_Rqmt	Op_Mvtrqt_Id	Deployed_Eng_Sensitive_Unit	Force_Rqmt_Number
	Unt_Cd		Fragmentation_Code
	Opfrq_Auth_Prsl_Cqy		Insert_Code
	Svc_Cd		UTC
	Unl_Cd		Troop_Strength
	Op_Mvtrqt_Dest_Rdd_Cqy		Service_Code
	Op_Mvtrqt POD_Lad_Cqy		ULC
	Opfrq_Un_Id		Destination_Arrival_Date
	Opfrq_Prvdng_Org_Src_Cd	Unit_Type	POD_Arrival_Date
			UIC
			Self Sustainability Code

- b. Oplan\_Force\_Rqmt\_Loc Table. This table defines the preferred mode, source, and location information for each stage of an Oplan\_Force\_Rqmt's journey. Each stage represents travel from a location, for example to Port of Debarkation (POD) by “air” mode. Table 3.3.2.2.1.2-2 shows the relationship between the GCCS Oplan\_Force\_Rqmt\_Loc table and the JEPES tables.

Table 3.2.2.1.2-2. GCCS Oplan\_Force\_Rqmt\_Loc Table

GCCS TABLE	GCCS DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Oplan_Force_Rqmt_Loc	if Op_Rtg_Trnlpn_Loc_Cd = 'A' then Glc_Cd	Deployed_Eng_Sensitive_Unit	Originating_Geoloc
	if Op_Rtg_Trnlpn_Loc_Cd = 'J' then Glc_Cd		POD_Geoloc
	if Op_Rtg_Trnlpn_Loc_Cd = 'N' then Glc_Cd		Destination_Geoloc
	if Op_Rtg_Trnlpn_Loc_Cd = 'E' then Glc_Cd		POE_Geoloc

### 3.2.2.1.3 GCCS/Other Data

- a. Geographic\_Location Table. This table represents a unique designation for a place of military significance in the world. Table 3.2.2.1.3-1 shows the relationship between the GCCS Geographic\_Location table and the JEPES tables. Geoloc\_Tab is a JEPES view of the GCCS Geographic\_Location table, therefore if the Geographic\_Location table gets updated, the JEPES Geoloc\_Tab view is automatically updated.

Table 3.2.2.1.3-1. GCCS Geographic\_Location Table

GCCS TABLE	GCCS DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Geographic_Location	Glc_Cd	Geoloc_Tab (JEPES View)	Geoloc_Code
	Glc_Nm		Geoloc_Name
	Cy_St_Cd		Cyst_Cd
	Int_Cd		Geoloc_Type_Cd
	Glc_Ltcn		Geoloc_Lat
	Glc_Lncn		Geoloc_Lon
	Glc_Nm	Deployed_Eng_Sensitive_Unit	Destination_Geloc_Name

### 3.2.2.1.4 WWMCCS/Civil Engineering Files

- a. OPLAN Dependent Asset File. This file defines the quantity of a specific facility category existing at a particular geographic location. It also contains the air war damaged factor during an air war modeling period for up to 31 days. A blank category code for each base complex is used to provide war damage factors for newly constructed facilities. Asset owners can be either the U.S. or a host nation. The *assetus.txt* file is for U.S. asset owners only and is loaded into the ORACLE tables: Asset and War\_Damage\_Factor.
- b. OPLAN Dependent Host Nation Asset File. The *assethn.txt* file is loaded into the ORACLE tables: Asset and War\_Damage\_Factor.

**Note:** When loading the *asset* text files, the user must load *hnasset.txt* after loading *assets.txt*. See Appendix G for more information on loading *asset* text files and any existing WWMCCS text files.

### **3.2.2.1.5      Rebasing**

This functionality is available within JEPES. It occurs when the user updates the Base\_Complex and Base\_Location tables; the same information is updated in the Base\_Fac\_Constr\_Policy and Backup\_Supply tables. For more information on Rebasing, refer to Section 5.3.2.1.1.

### **3.2.2.1.6      Existing OPLANS**

The JEPES tables can be updated by using data from existing OPLANS. The user first exports independent data from an existing OPLAN and then imports the independent data into the new OPLAN. For more information on exporting and importing, refer to Section 5.3.1.

### **3.2.2.1.7      Keyboard Input**

In addition to data loaded into ORACLE tables at the initialization phase, data in major ORACLE tables can be changed by the utilization of the Database Maintenance function of JEPES. Section 5.3.2 discusses how to update the tables.

Input data is also required when operating various functions of JEPES. In some cases, the user is asked to provide input to control the program. In other cases, the user is asked to define such data values as engineer phase-in efficiency and/or skill substitution parameters.

## **3.2.2.2 Downloading WWMCCS Text Files**

The functionality is still available to download the WWMCCS text files even though the capability to create WWMCCS text files no longer exists. This function is kept online for the use of pre-existing WWMCCS text files only. Before running the JEPES imp\_text function, users must verify that ORACLE tables exist, and if not, create them. For more information on downloading WWMCCS text files, refer to Appendix G.

### **3.2.2.3 JEPES Input Relationships**

Tables 3.2.2.3-1 and 3.2.2.3-2 list the related JEPES tables involved per selection in the Database Maintenance (Edit) function along with some value limitations used throughout the tables input process. A keyboard entry can require a cross-check between two or more tables before input to the JEPES database.

Keyboard entry is also limited by predetermined value ranges.

Table 3.2.2.3-1. Dependent Edit Consistency Checks Table

MENU SELECTION	TABLES CHECKED
ASSET WAR DAMAGE FACTOR	Asset, Base_Complex, Base_Location, Facility_Category, War_Damage_Factor
BASE COMPLEX BASE LOCATION	Base_Complex, Base_Location, Backup_Supply, Base_Fac_Construction_Policy, Planner_Input_Requirements, Engineering_Support, Component_Exception, Asset, Deployed_Eng_Sensitive_Unit, War_Damage_Factor
BASE FACILITY CONSTRUCTION POLICY	Base_Fac_Construction_Policy, Base_Complex, Facility_Category
BACKUP SUPPLY	Backup_Supply, Base_Complex
DEPLOYED UNIT (TROOP)	Deployed_Eng_Sensitive_Unit, Base_Complex, Geoloc_Tab (Service code range 'A F N M')
ENGINEERING SUPPORT	Engineering_Support, Base_Complex, Facility_Category (Facility Project Class range 'B C W R')
OPERATION	Operation, Cargo_Aggregation_Period
PLAN FACILITY CONSTRUCTION POLICY	Plan_Fac_Construction_Policy, Facility_Category (Facility Project Class range 'B C W R' and Facility Priority range 'C E N')
PLANNER INPUT REQUIREMENTS	Planner_Input_Requirement, Facility_Component, Base_Complex, Facility_Category (Facility Project Class range 'B C W R,' Facility Priority range 'C E N,' and Using Service range 'A F J M N P')
PROJECT	Project, Facility_Category (Facility Project Class range 'B C W R,' Construction Service 'A F N M P J,' Facility Project Class 'B W C R,' and Using Service range 'A F J M N P')

Table 3.2.2.3-2. Independent Edit Consistency Checks Table

MENU SELECTION	TABLES CHECKED
COMPONENT	Component, Facility_Requirement, Facility_Component, Planner_Input_Requirement (Service Class 'A F N M J P,' Fractionable component 'F W,' and Follow-on Construction Service 'A F J M P')
ENGINEERING UNIT CAPABILITY	Engineering_Unit_Capability, Unit_Type
EQUIPMENT PLANNING FACTOR	Equipment_Planning_Factor, Facility_Category, Equipment_Type (Using Service 'A F N M P J' and Equipment Class 'A V')
EQUIPMENT TYPE	Equipment_Type, Equipment_Planning_Factor, Unit_Equipment
FACILITY CATEGORY FACILITY CATEGORY SUBSTITUTE	Facility_Category, Asset, War_Damage_Factor, Base_Fac_Construction_Policy, Plan_Fac_Construction_Policy, Component_Exception, Facility_Requirement, Facility_Component, General_Planning_Factor, Facility_Category_Substitute, Equipment_Planning_Factor, Engineering_Support, Planner_Input_Requirement (LSA 'A D P S T U' and Requirement Group 'A B F I M O P " " U')
FACILITY COMPONENT	Facility_Component, Component, Facility_Category, Planner_Input_Requirement (Service 'A F J M P' and Facility Project 'B C W R')
FACILITY REQUIREMENT	Facility_Requirement, Component, Facility_Component, Facility_Category (Support Structure Index '1 2 3 4 5')
GENERAL PLANNING FACTOR	General_Planning_Factor, Facility_Category (Using Service 'A F N M J P' and Support Structure Index '1 2 3 4 5')
UNIT EQUIPMENT	Unit_Equipment, Unit_Type (Using Service 'A F N M J P')
UNIT TYPE	Unit_Equipment, Engineering_Unit_Capability, Facility_Requirement, Deployed_Eng_Sensitive_Unit (Using Service 'A F N M J P')

### 3.2.3 Input Format

See Appendix D, Data Element Dictionary, for a complete structure description of the input.

### 3.2.4 JEPES Vocabulary

The codes and abbreviations described below are used throughout JEPES.

#### 3.2.4.1 File Name Extension

Extension *.s* is used for all UNIX shell script files that invoke a process or transaction. Extension *.ctl* is used for all SQL files that call the SQL\*Loader utility. Extension *.sql* is used for all SQL files containing Procedural Language/SQL (PL/SQL), SQL, or SQL\*Plus statements to manipulate ORACLE data and tables. Extension *.x* is used for all Ada executables.

### 3.2.4.2 Screen Terms

Table 3.2.4.2-1 identifies the abbreviated terms used when running JEPES.

Table 3.2.4.2-1. Abbreviated Terms Used When Running JEPES (1 of 3)

<u>Term</u>	<u>Meaning</u>
ALT CNSTR SERV	Alternate Constructing Service
ALT PROJ TYPE	Alternate Project Type
ASSETHN	Asset Host Nation
ASSET SRC IND	Asset Source Indicator
ASSETUS	Asset U.S.
ASSETWAR	Asset and War Damage Factor
AUST. CMPT	Austere Component
BACKUP	Back-Up Supply
BASEFAC	Base Facility
BASFCCPY	Base Facility Construction Policy
BCKUPSUP	Back-Up Supply
BCMPLLOC	Base Complex Location
BSE-CMPLX-NBR	Base Complex Number
BSE DOD CMP FAC NBR CAT	Base DOD Component Facility Number Category
CARGO AGG. PD SEQ NO	Cargo Aggregation Period Sequence Number
CESPG	Civil Engineering Support Plan Generator
CLIM FIRS FLAG	Climatic Factors Flag
CMPNT	Component Definition
CNTRY CD OF ORIGIN	Country Code of Origin
COMP	Component
COMPEXC	Component Exception Period
CONSTRNG SERV	Constructing Service
CONTR.AFFIL.	Contractor Affiliation
CONTR ENG PRTY	Contractor Engineering Priority Code
CYST-CD	Country/State Code
DELAY DYS REQ	Delay Days Required
DEPENG	Deployed Engineering Unit
DESTLOC	Destination Location
DMND COMPLN DATE	Demand Completion Date
DOD_FAC_CAT_CD	DOD Facility Category Code
ECAPB	Service Engineering Unit Capability
END OF ANAYS PD	End-of-Analysis Period
ENGNG FORCE UTILZN INDR	Engineering Force Utilization Indicator Code
ENGNG RSRC SEQ	Engineering Resource Sequence Number
ENGSUP	Engineering Support
ENGUNCA	Engineering Unit Capability
EQUIPTY	Equipment Type

Table 3.2.4.2-1. Abbreviated Terms Used When Running JEPES (2 of 3)

<u>Term</u>	<u>Meaning</u>
EQUPLFC	Equipment Planning Factor
FAC	Facility
FACCAT	Facility Category
FACCOMP	Facility Component
FACILITY CAT CD	Facility Category Code
FACOMPNT	Facility Component
FAC PROJ CL	Facility Project Class
FAC PROJ CLASS	Facility Project Class
FAC PRTY SEQ NO	Facility Priority Sequence Number
FAC PRTY TYPE	Facility Priority Type
FACREQ	Facility Requirements
FALTCD	Facility Category Code
FCCTSUB	Facility Category Substitute
FOLLOW_ON_CONSTRNG_SERV	Follow-on Constructing Service Code
GEOLOC_CD	Geographic Location Code
GNRLPLFC	General Planning Factor
HN	Host Nation
HNASSET	Host Nation Asset
HN/CNTTR ENG AVAIL	Host Nation/Contractor Engineer Available
MAX AVAIL MNHRS/DAY	Maximum Available Man Hours Per Day
MAX. FAC. QUANTITY	Maximum Facility Quantity
MNHR CPBLTY	Man Hour Capability
MTONS	Measurement Tons
NBR OF CMPNTS	Number of Components
NON-COMB-POP	Noncombatant Population
NUC	Non-Unit Cargo
OPLAN	Operation Plan
ORIGLOC	Originating Location
PCT	Percent
PLANG FACTOR ECH.	Planning Factor Echelon
PLANG FAC TYPE	Planning Factor Type
PLFACPOL	Plan Facility Construction Policy
PLFCCN	Plan Facility Construction Policy
PLNINPRE	Planner Input Requirement
PLNGFACT	Planning Factors
PLNGFCTR	Planning Factors
POD	Port of Debarkation
POE	Port of Embarkation
SERV-COMP CODE	Service Component Code
SERVCOMP CD	Service Component Code

Table 3.2.4.2-1. Abbreviated Terms Used When Running JEPES (3 of 3)

<u>Term</u>	<u>Meaning</u>
START OF ANAYS PD	Start of Analysis Period
STONS	Short Tons
SUPP.STR.INDEX	Support Structure Index
TPFDD	Time-Phased Force Deployment Data
TUCHA	Type Unit Characteristics
UNIT-ALLOC-CONSTRN	Unit Allocated Construction
UNITEQUI	Unit Equipment
UNIT_TYP	Unit Type
UNIT_VEH	Unit Vehicle
UIC	Unit Identification Code
ULC	Unit Level Code
UOM	Unit of Measure
UTC	Unit Type Code
WARDAMHN	War Damaged Factor Host Nation

### **3.2.5 Sample Input**

#### **3.2.5.1 WWMCCS Files**

See the CESPG Manual, reference e.

#### **3.2.5.2 Keyboard Input**

The entries from the keyboard are menu-driven. The input is controlled by JEPES, and the fill-up boxes have a predetermined length.

### **3.2.6 Composition Rules**

Data downloaded from GCCS must be formatted by SQL\*Plus and SQL\*Loader programs before loading into the ORACLE tables (see Section 3.2.2.2).

### **3.3 Output Requirements**

#### **3.3.1 Output Format**

The output format for reports is listed according to function area in Table 3.3.1-1. Text files output from the Ada programs also are listed for reference since they provide data for the ORACLE tables. If a sorted key is not mentioned, the report listing is in the data order and is stored in the ORACLE tables. If an output has a sorted key, the key will be mentioned.

Table 3.3.1-1. JEPES Outputs

Function	Tabular	Graphic
TPFDD Extract	<i>oplan_id.rej</i> (text file)	
Database Analysis	Database Analysis Verification	
Requirements Generator	Facility Requirements	Base Population Data Time-Phased Requirements Data Time-Phased Population Growth
Requirements Analysis	Asset-Satisfied Requirements Asset-Unsatisfied Requirements Construction Requirements Satisfied Construction Requirements Unsatisfied Construction Requirements	
Support Functions	Non-Unit Cargo Shipment Requirements <i>logsafe.Txt</i> (text file) <i>lsa.Txt</i> (text file)	Percentage Forces Sustainable Minimum Percent Subelement Available Percentage of Subelement Available Over Time
Report/Queries	Facility Requirements Asset-Satisfied Requirements Asset-Unsatisfied Requirements Construction Requirements Satisfied Construction Requirements Unsatisfied Construction Requirements	Base Population Data Time-Phased Requirements Data Time-Phased Population Growth

### 3.3.1.1 TPFDD Extract Report

The TPFDD Extract function under the Utilities function produces a TPFDD reject file for a particular OPLAN.

Figure 3.3.1.1-1 shows an example of a list of TPFDD records that were rejected by the TPFDD Extract function. The file also includes a reason why the record was rejected.

### 3.3.1.2 Database Analysis Reports

The Database Analysis function produces Database Analysis Verification reports when there is a discrepancy between two database tables.

Figure 3.3.1.2-1 shows an example of a discrepancy between the Engineering\_Unit\_Capability table and Unit\_Type table. If there is no discrepancy between the two tables, then “no rows selected” is output.

BSE_CMPLX_NBR	DEST FORCE	F I UTC	DESTINATION_ARRIVAL_DATE	POD_	POD_ARRIVAL_DATE	ORIG POE_	TROOP_SEQUENCE_NUMBER	TROOP_STRENGTH	ULC
UIC	S	DESTINATION_GEOLOC_NA	REJECT_REASON						
UN_ID	F	0 FRNNB X X UTCCD	POD Arrival Date of 999	5 JADW	999 JADW		0	10230 ULC	
UN_ID	F	0 FRNWB X X UTCCD	Troop Strength of 0	5 JADW	6 JADW		0	0 ULC	
UN_ID	F	0 FRNVB X X UTCCD	Troop Strength of 0	5 JADW	6 JADW		0	0 ULC	
UN_ID	F	0 FRNMB X X UTCCD	Invalid Service Code	5 JADW	6 JADW		0	10230 ULC	
UN_ID	X	0 FRNZB O X UTCCD	Invalid Fragmentation Code	5 JADW	6 JADW		0	10230 ULC	
UN_ID	F	0 FRNYB I X UTCCD	Invalid Fragmentation Code	5 JADW	6 JADW		0	10230 ULC	
UN_ID	F	0 FRNXB I X UTCCD	Invalid Fragmentation Code	5 JADW	6 JADW		0	10230 ULC	
UN_ID	F	0 FRNaB o X UTCCD	Invalid Fragmentation Code	5 JADW	6 JADW		0	10230 ULC	
UN_ID	F	0 FRNeB X o UTCCD	Invalid Insert Code	5 JADW	6 JADW		0	10230 ULC	
UN_ID	F	0 FRNdB X O UTCCD	Invalid Insert Code	5 JADW	6 JADW		0	10230 ULC	
UN_ID	F	0 FRNcB X I UTCCD	Invalid Insert Code	5 JADW	6 JADW		0	10230 ULC	
UN_ID	F	0 FRNbB X I UTCCD	Invalid Insert Code	5 JADW	6 JADW		0	10230 ULC	
UN_ID	F	0 FRNIY Y Y UTCCD	Blank Destination GEOLOC	5 PODG	6 ORIG POEG		0	10230 U11	

Figure 3.3.1.1-1. TPFDD Rejected Records Report

unclassified

DATABASE ANALYSIS VERIFICATION  
For PLAN FACILITY CONSTRUCTION POLICY AGAINST FACILITY CATEGORY

1

FACILITY CATEGORY CODE	COMMENT
125C	NO MATCH in FACILITY CATEGORY table
125D	NO MATCH in FACILITY CATEGORY table
125F	NO MATCH in FACILITY CATEGORY table
141A	NO MATCH in FACILITY CATEGORY table
441B	NO MATCH in FACILITY CATEGORY table
831B	NO MATCH in FACILITY CATEGORY table
871A	NO MATCH in FACILITY CATEGORY table
871B	NO MATCH in FACILITY CATEGORY table
972A	NO MATCH in FACILITY CATEGORY table
972B	NO MATCH in FACILITY CATEGORY table

Unclassified

10 rows selected.

Figure 3.3.1.2-1. Database Analysis Verification Report

### **3.3.1.3 Requirements Generation**

#### **3.3.1.3.1 Reports**

The Requirements Generation function produces the Facility Requirements list. Options are available to produce a list of all projects or a specific base complex may be selected. The reports provide the user with a tool to evaluate different project types by knowing the facilities to build, components used, who will build the facility, and for whom. The order projects are listed as shown in Figure 3.3.1.3.1-1, Facility Requirements list. Refer to Appendix H, JEPES codes, for descriptions of the output.

#### **3.3.1.3.2 Graphics**

Requirements Generation graphics are for screen display only. There is no print capability.

- a. Base Population Data. This spreadsheet and bar graph show for each base complex number (BCN) in the OPLAN, the TOTPOP and the noncombat population, see Figure 3.3.1.3.2-1.
- b. Time-Phased Population Data for the Entire Plan. This spreadsheet and bar graph display, for the specific OPLAN, the individual and cumulative troop strength for each aggregation time period, see Figure 3.3.1.3.2-2.
- c. Time-Phased Requirements Data in the Entire Plan for a Specific Facility Category code. This spreadsheet and bar graph display, for an entire OPLAN, the total facility amount for up to four selected Department of Defense (DOD) Facility Category codes for each aggregation time period, see Figure 3.3.1.3.2-3.
- d. Time-Phased Requirements Data for a Specific Facility Category code at a Specific Base Complex. This spreadsheet and bar graph display, for a BCN, the total facility amount for up to four selected DOD Facility Category codes for each aggregation time period, see Figure 3.3.1.3.2-4.
- e. Time-Phased Population Growth for a Base Complex. This spreadsheet and bar graph display, for a BCN, the individual and cumulative troop strength for each aggregation time period, see Figure 3.3.1.3.2-5. This is available by selecting the *runjgraphs* icon. See Section 5.3.8.

Unclassified

BASE COMPLEX	CATEGORY CODE	USING SERVICE	FACILITY REQUIREMENTS LIST (ORDERED BY BASE COMPLEX, CATEGORY CODE, RDD, USING SERVICE, PROJECT TYPE, COMPONENT)					NUMBER OF COMPONENTS	PROJECT TYPE	PAGE - 1
			CONSTRUCTING SERVICE	FACILITY AMOUNT	RDD	COMPONENT CODE				
2	111A	F	F	53340.0	0	11004AC	.00	4		
2	111R	F	F	100.0	0	???????	.00	6		
2	111R	F	F	100.0	1	11035FR	.00	4		
2	112A	F	F	53340.0	0	11071AR	.00	4		
2	112R	F	F	100.0	0	???????	.00	6		
2	112R	F	F	100.0	1	11035FR	.00	4		
2	113A	N	F	9058.0	61	???????	.00	2		
2	113A	M	F	1860.0	77	???????	.00	2		
2	113A	M	F	1860.0	103	???????	.00	2		
2	113A	N	F	9058.0	114	???????	.00	2		
2	113A	N	F	9058.0	144	???????	.00	2		
2	113A	M	F	1860.0	176	???????	.00	2		
2	116A	F	F	803.0	0	???????	.00	6		
2	116B	F	F	1600.0	0	???????	.00	6		
2	116D	F	F	17800.0	0	11007AC	.00	4		
2	121B	F	F	4.0	0	???????	.00	6		
2	124A	N	F	37700.0	61	???????	.00	2		
2	124A	N	F	37700.0	114	???????	.00	2		
2	124A	N	F	37700.0	144	???????	.00	2		
2	131A	F	F	8100.0	0	???????	.00	6		
2	133A	F	F	1.0	0	???????	.00	6		
2	141B	F	F	960.0	0	???????	.00	6		
2	141E	N	F	1440.0	61	???????	.00	2		
2	141E	N	F	1440.0	114	???????	.00	2		
2	141E	N	F	1440.0	144	???????	.00	2		
2	141H	F	F	2400.0	0	???????	.00	6		
2	141I	F	F	2750.0	0	???????	.00	6		
2	141L	F	F	5055.0	0	???????	.00	6		
2	141M	F	F	4000.0	0	???????	.00	6		
2	141N	F	F	2000.0	0	???????	.00	6		
2	143A	N	F	700.0	61	???????	.00	2		
2	143A	N	F	700.0	114	???????	.00	2		
2	143A	N	F	700.0	144	???????	.00	2		
2	149A	N	F	758.0	61	???????	.00	2		
2	149A	M	F	2.0	77	???????	.00	2		
2	149A	M	F	2.0	103	???????	.00	2		
2	149A	N	F	758.0	114	???????	.00	2		
2	149A	N	F	758.0	144	???????	.00	2		
2	149A	M	F	2.0	176	???????	.00	2		
2	149B	F	F	1.0	0	???????	.00	6		
2	149E	F	F	3000.0	0	???????	.00	6		
2	211B	F	F	1000.0	0	???????	.00	6		
2	211C	F	F	6000.0	0	???????	.00	6		

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Figure 3.3.1.3.1-1. Facility Requirements List

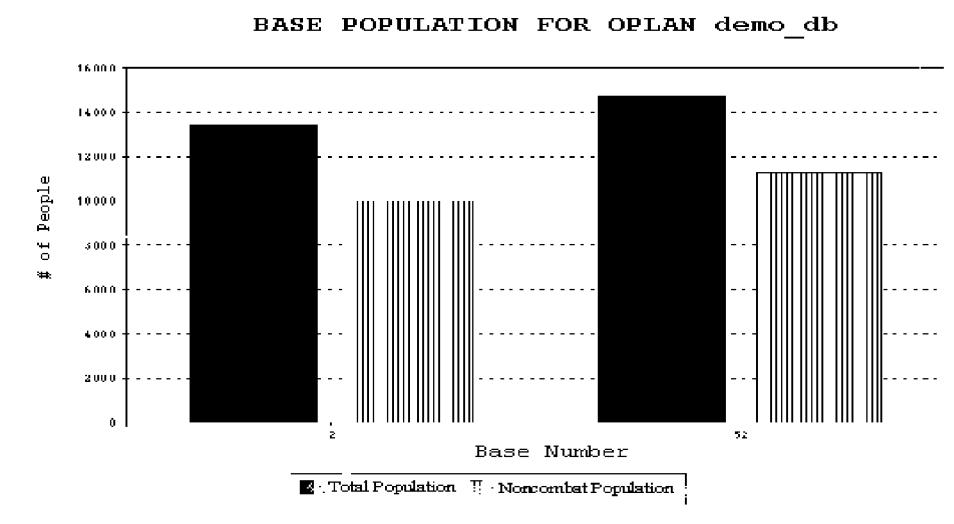


Figure 3.3.1.3.2-1. Base Populations for OPLAN Graph

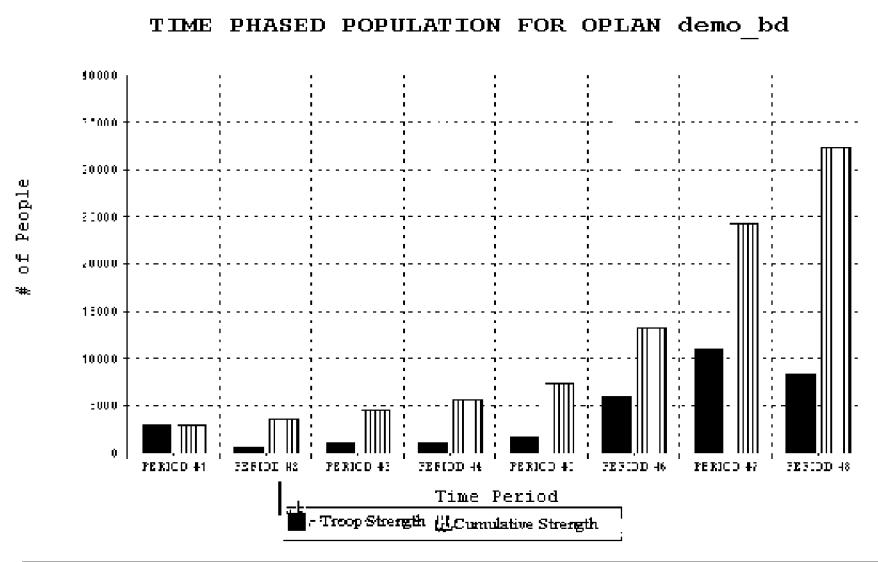


Figure 3.3.1.3.2-2. Time-Phased Population for An OPLAN Graph

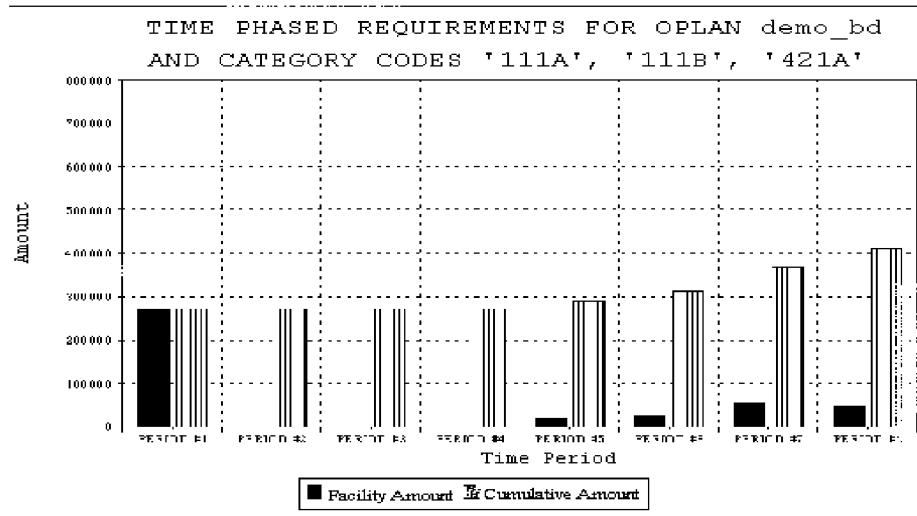


Figure 3.3.1.3.2-3. Time-Phased Requirements for An OPLAN and Category Codes Graph

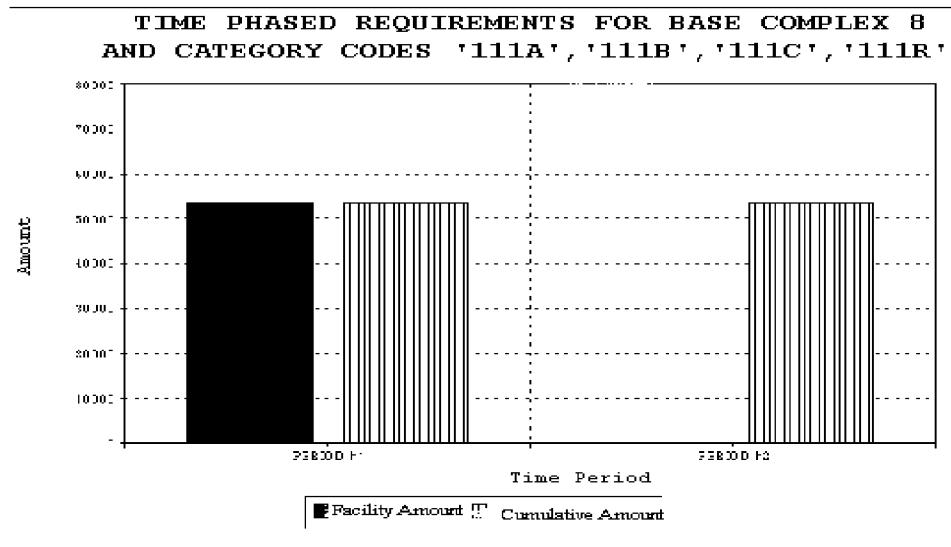


Figure 3.3.1.3.2-4. Time-Phased Requirements for A Base Complex and Category Codes Graph

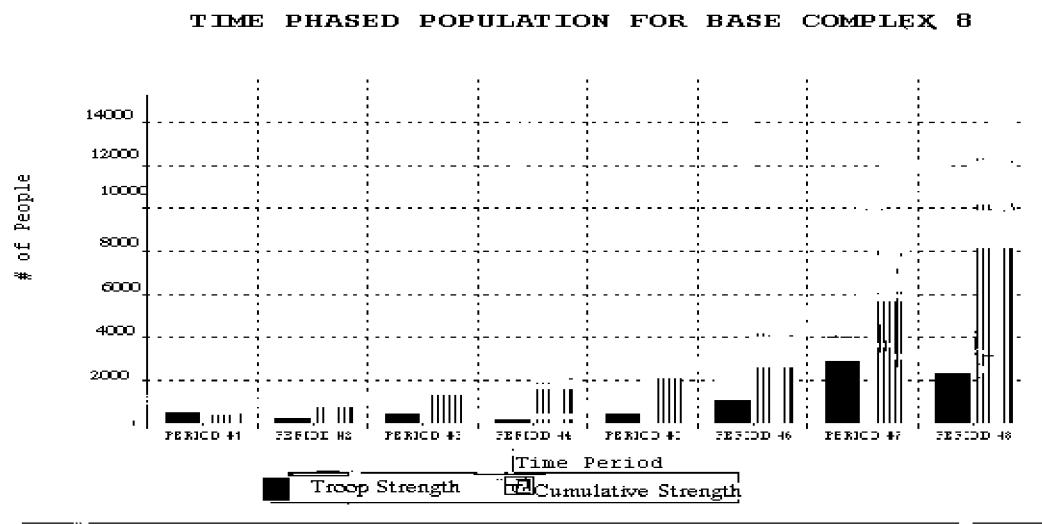


Figure 3.3.1.3.2-5. Time-Phased Population Growth for A Base Complex Graph

### **3.3.1.3.3      Text Files**

The Ada program (*tjepes.x*) supporting Requirements Generation provides six text files. The specific text file generated depends on selection of the requirement to generate. Table 3.3.1.3.3-1 shows the relationship.

Table 3.3.1.3.3-1. Relationship of Requirements to Generate and Text Files

<u>Requirements to Generate</u>	<u>Text File</u>
Unit Allocated	<i>Equipmnt.txt</i> <i>Unitallo.txt</i>
Planner Facility	<i>Planinp.txt</i>
Population	<i>People.txt</i> <i>Totpop.txt</i>
Base Requirements	<i>Bybase.txt</i>

These text files are used to update the JEPES database.

### **3.3.1.4 Requirements Analysis**

#### **3.3.1.4.1      Reports**

The Requirements Analysis function has several types of reports that provide requirements satisfied by available assets. They include project type, category codes, and the using and constructing service. All reports can be limited to list only projects within specified regions or within a time period.

The first set of reports show the results of requirements matched to available assets. These are as follows:

- a.      Database Analysis for Asset-Satisfied Requirements (See Figure 3.3.1.4.1-1).
- b.      Database Analysis for Asset-Unsatisfied Requirements (See Figure 3.3.1.4.1-2).

The second set of reports show the results of applying engineering support to the asset-unsatisfied requirements. These reports show the project type associated with the category codes of a specified base complex, the date available, and required completion date for construction. The reports are as follows:

- a.      Database Analysis for all Construction Requirements (See Figure 3.3.1.4.1-3).
- b.      Database Analysis for Satisfied Construction Requirements (See Figure 3.3.1.4.1-4).
- c.      Database Analysis for Unsatisfied Construction Requirements (See Figure 3.3.1.4.1-5).

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DATABASE ANALYSIS FOR ASSET-SATISFIED REQUIREMENTS								PAGE -	1	
		FACILITY						NUMBER		
BCN	JCS	CAT	QUANTITY REQUIRED	UOM	USING SERVICE	CONSTR SERVICE	DATE REQD	CMPNT CODE	COMPONENTS REQUIRED	PROJ TYPE
2	111A		53,340.0	SY F	S		0		.00	4
2	111R		100.0	EA F	S		0		.00	6
2	112A		53,340.0	SY F	S		0		.00	4
2	112R		100.0	EA F	S		0		.00	6
2	116A		803.0	SY F	S		0		.00	6
2	116B		1,600.0	SY F	S		0		.00	6
2	121B		4.0	OL F	S		0		.00	6
2	131A		8,100.0	SF F	S		0		.00	6
2	133A		1.0	SF F	S		0		.00	6
2	141B		960.0	SF F	S		0		.00	6
2	141H		2,400.0	SF F	S		0		.00	6
2	141I		2,750.0	SF F	S		0		.00	6
2	141L		5,055.0	SF F	S		0		.00	6
2	141M		4,000.0	SF F	S		0		.00	6
2	141N		2,000.0	SF F	S		0		.00	6
2	149B		1.0	EA F	S		0		.00	6
2	149E		3,000.0	LF F	S		0		.00	6
2	211B		1,000.0	SF F	S		0		.00	6
2	211E		7,500.0	SF F	S		0		.00	6
2	214B		12,000.0	SF F	S		0		.00	6
2	215A		8,625.0	SF F	S		0		.00	6
2	216A		7,570.0	SF F	S		0		.00	6
2	218C		3,880.0	SF F	S		0		.00	6
2	218D		6,065.0	SF F	S		0		.00	6
2	219A		32,431.8	SF F	S		0		.00	6
2	432A		432.0	CF F	S		0		.00	6
2	442A		36,922.3	SF F	S		0		.00	6
2	452A		8,185.9	SY F	S		0		.00	6
2	610A		5,987.4	SF F	S		0		.00	6
2	730A		6,000.0	SF F	S		0		.00	6
2	730B		9,695.0	SF F	S		0		.00	6
2	411G		1,200.0	GA F	S		5		.00	4
2	721A		2,462.4	SF F	S		33		.00	12
2	722A		532.0	SF F	S		33		.00	12
2	724A		418.0	SF F	S		33		.00	12
2	811A		57.0	KW F	S		33		.00	12
2	812A		1,900.0	LF F	S		33		.00	12
2	831A		.4	KG F	S		33		.00	12
2	832A		380.0	LF F	S		33		.00	12
2	841B		1.9	KG F	S		33		.00	12
2	841C		950.0	GA F	S		33		.00	12
2	842A		418.0	LF F	S		33		.00	12
2	721A		2,203.2	SF A	S		36		.00	12
2	722A		476.0	SF A	S		36		.00	12

Unclassified

Figure 3.3.1.4.1-1. Database Analysis for Asset-Satisfied Requirements Report

Unclassified

DATABASE ANALYSIS FOR ASSET-UNSATISFIED REQUIREMENTS								PAGE -	1	
		FACILITY						NUMBER		
BCN	JCS	CAT	QUANTITY REQUIRED	UOM	USING SERVICE	CONSTR SERVICE	DATE REQD	CMPNT CODE	COMPONENTS REQUIRED	PROJ TYPE
2	111RB		100.0	EA F	F		1	11035FR	100.00	4
2	111RW		9.5	EA F	F		10	11035FR	9.00	1

2	111RW	7.5	EA	F		F	11	11035FR	7.00	1
2	111RW	4.5	EA	F		F	12	11035FR	4.00	1
2	111RW	2.0	EA	F		F	13	11035FR	2.00	1
2	112RB	100.0	EA	F		F	1	11035FR	100.00	4
2	112RW	1.0	EA	F		F	10	11035FR	1.00	1
2	112RW	1.0	EA	F		F	11	11035FR	1.00	1
2	112RW	1.0	EA	F		F	12	11035FR	1.00	1
2	112RW	1.0	EA	F		F	13	11035FR	1.00	1
2	116DB	17,800.0	SY	F		F	0	11007AC	1.28	4
2	124AB	37,700.0	GA	N		N	61	12430B	1.00	2
2	124AB	37,700.0	GA	N		N	114	12430B	1.00	2
2	211CB	6,000.0	SF	F		F	0	14001FB	1.00	6
2	214CB	2,700.0	SF	F		F	0	21401FB	1.00	6
2	432AB	14.5	CF	A		A	50	43190AB	1.00	12
2	432AB	17.0	CF	A		A	36	43190AC	1.00	12
2	432AB	16.0	CF	A		A	85	43190AC	1.00	12
2	432AB	17.0	CF	A		A	172	43190AC	1.00	12
2	432AB	6,553.3	CF	F		F	0	43203FB	1.00	6
2	OPRB	5,368.0	MN	F		F	5	XXXXXXXX	5,368.00	4
2	OPRB	1,100.0	MN	F		F	10	XXXXXXX	1,100.00	4
2	OPRB	1,100.0	MN	F		F	15	XXXXXXX	1,100.00	4
2	OPRB	3,305.0	MN	F		F	30	XXXXXXX	3,305.00	4
2	OPRB	3,305.0	MN	F		F	45	XXXXXXX	3,305.00	4
2	OPRB	3,305.0	MN	F		F	60	XXXXXXX	3,305.00	4
2	OPRB	6,610.0	MN	F		F	90	XXXXXXX	6,610.00	4
2	OPRB	6,610.0	MN	F		F	120	XXXXXXX	6,610.00	4
2	OPRB	6,610.0	MN	F		F	150	XXXXXXX	6,610.00	4
2	OPRB	6,610.0	MN	F		F	180	XXXXXXX	6,610.00	4
8	111RW	9.5	EA	F		F	10	11035FR	9.00	1
8	111RW	7.5	EA	F		F	11	11035FR	7.00	1
8	111RW	4.5	EA	F		F	12	11035FR	4.00	1
8	111RW	2.0	EA	F		F	13	11035FR	2.00	1
8	112RW	19.5	EA	F		F	10	11035FR	19.00	1
8	112RW	15.0	EA	F		F	11	11035FR	15.00	1
8	112RW	9.0	EA	F		F	12	11035FR	9.00	1
8	112RW	4.0	EA	F		F	13	11035FR	4.00	1
8	112RW	.5	EA	F		F	14	11035FR	1.00	1
8	116DB	4,230.0	SY	F		F	0	11007AC	.31	4
8	811AB	52.0	KW	A		A	63	81110AU	.87	12
8	811AB	87.0	KW	A		A	73	81110AV	.73	12
8	811AB	96.0	KW	A		A	75	81110AV	.80	12

Unclassified

**Figure 3.3.1.4.1-2. Database Analysis for Asset-Unsatisfied Requirements Report**  
Unclassified

DATABASE ANALYSIS FOR CONSTRUCTION REQUIREMENTS											PAGE - 1	
BCN	JCS CODE	CAT	FACILITY QUANTITY REQUIRED	UOM	USING SERVICE	CONSTR SERVICE	DATE REQD	START DATE	DATE AVAIL	CMPNT CODE	NUMBER COMPONENTS REQUIRED	PROJ TYPE
2	111A		53,340.0	SY	F	S	0	0	0		.00	4
2	111R		100.0	EA	F	S	0	0	0		.00	6
2	112A		53,340.0	SY	F	S	0	0	0		.00	4
2	112R		100.0	EA	F	S	0	0	0		.00	6
2	113A		1,860.0	SY	M	S	77	0	77		.00	2
2	113A		9,058.0	SY	N	S	144	0	144		.00	2
2	113A		1,860.0	SY	M	S	103	0	103		.00	2
2	113A		9,058.0	SY	N	S	61	0	61		.00	2
2	113A		1,860.0	SY	M	S	176	0	176		.00	2
2	113A		9,058.0	SY	N	S	114	0	114		.00	2
2	116A		803.0	SY	F	S	0	0	0		.00	6
2	116B		1,600.0	SY	F	S	0	0	0		.00	6

2 121B	4.0	OL	F	S	0	0	0	.00	6
2 131A	8,100.0	SF	F	S	0	0	0	.00	6
2 133A	1.0	SF	F	S	0	0	0	.00	6
2 141B	960.0	SF	F	S	0	0	0	.00	6
2 141E	1,440.0	SF	N	S	61	0	61	.00	2
2 141E	1,440.0	SF	N	S	144	0	144	.00	2
2 141E	1,440.0	SF	N	S	114	0	114	.00	2
2 141H	2,400.0	SF	F	S	0	0	0	.00	6
2 141I	2,750.0	SF	F	S	0	0	0	.00	6
2 141L	5,055.0	SF	F	S	0	0	0	.00	6
2 141M	4,000.0	SF	F	S	0	0	0	.00	6
2 141N	2,000.0	SF	F	S	0	0	0	.00	6
2 143A	700.0	SF	N	S	61	0	61	.00	2
2 143A	700.0	SF	N	S	144	0	144	.00	2
2 143A	700.0	SF	N	S	114	0	114	.00	2
2 149A	2.0	LF	M	S	77	0	77	.00	2
2 149A	758.0	LF	N	S	114	0	114	.00	2
2 149A	758.0	LF	N	S	144	0	144	.00	2
2 149A	758.0	LF	N	S	61	0	61	.00	2
2 149A	2.0	LF	M	S	103	0	103	.00	2
2 149A	2.0	LF	M	S	176	0	176	.00	2
2 149B	1.0	EA	F	S	0	0	0	.00	6
2 149E	3,000.0	LF	F	S	0	0	0	.00	6
2 211B	1,000.0	SF	F	S	0	0	0	.00	6
2 211E	7,500.0	SF	F	S	0	0	0	.00	6
2 214B	12,000.0	SF	F	S	0	0	0	.00	6
2 215A	8,625.0	SF	F	S	0	0	0	.00	6
2 216A	7,570.0	SF	F	S	0	0	0	.00	6
2 218C	3,880.0	SF	F	S	0	0	0	.00	6
2 218D	6,065.0	SF	F	S	0	0	0	.00	6
2 219A	32,431.8	SF	F	S	0	0	0	.00	6
2 411G	1,200.0	GA	F	S	5	0	5	.00	4

Unclassified

Figure 3.3.1.4.1-3. Database Analysis for All Construction Requirements Report

DATABASE ANALYSIS FOR SATISFIED CONSTRUCTION REQUIREMENTS										PAGE - 1	
FACILITY										NUMBER	
BSE_CMPLX_NBR	JCS_CODE	CAT	QUANTITY_REQUIRED	USING_UOM	CONSTR_SERVICE	DATE_REQD	START_DATE	DATE_AVAIL	CMPNT_CODE	COMPONENTS_REQUIRED	PROJ_TYPE
2 111A			53,340.0	SY	F	S	0	0	0	.00	4
2 111R			100.0	EA	F	S	0	0	0	.00	6
2 112A			53,340.0	SY	F	S	0	0	0	.00	4
2 112R			100.0	EA	F	S	0	0	0	.00	6
2 113A			1,860.0	SY	M	S	77	0	77	.00	2
2 113A			9,058.0	SY	N	S	144	0	144	.00	2
2 113A			1,860.0	SY	M	S	103	0	103	.00	2
2 113A			9,058.0	SY	N	S	61	0	61	.00	2
2 113A			1,860.0	SY	M	S	176	0	176	.00	2
2 113A			9,058.0	SY	N	S	114	0	114	.00	2
2 116A			803.0	SY	F	S	0	0	0	.00	6
2 116B			1,600.0	SY	F	S	0	0	0	.00	6
2 121B			4.0	OL	F	S	0	0	0	.00	6
2 131A			8,100.0	SF	F	S	0	0	0	.00	6
2 133A			1.0	SF	F	S	0	0	0	.00	6
2 141B			960.0	SF	F	S	0	0	0	.00	6
2 141E			1,440.0	SF	N	S	61	0	61	.00	2
2 141E			1,440.0	SF	N	S	144	0	144	.00	2
2 141E			1,440.0	SF	N	S	114	0	114	.00	2

2	141H	2,400.0	SF	F	S	0	0	0	.00	6
2	141I	2,750.0	SF	F	S	0	0	0	.00	6
2	141L	5,055.0	SF	F	S	0	0	0	.00	6
2	141M	4,000.0	SF	F	S	0	0	0	.00	6
2	141N	2,000.0	SF	F	S	0	0	0	.00	6
2	143A	700.0	SF	N	S	61	0	61	.00	2
2	143A	700.0	SF	N	S	144	0	144	.00	2
2	143A	700.0	SF	N	S	114	0	114	.00	2
2	149A	2.0	LF	M	S	77	0	77	.00	2
2	149A	758.0	LF	N	S	114	0	114	.00	2
2	149A	758.0	LF	N	S	144	0	144	.00	2
2	149A	758.0	LF	N	S	61	0	61	.00	2
2	149A	2.0	LF	M	S	103	0	103	.00	2
2	149A	2.0	LF	M	S	176	0	176	.00	2
2	149B	1.0	EA	F	S	0	0	0	.00	6
2	149E	3,000.0	LF	F	S	0	0	0	.00	6
2	211B	1,000.0	SF	F	S	0	0	0	.00	6
2	211E	7,500.0	SF	F	S	0	0	0	.00	6
2	214B	12,000.0	SF	F	S	0	0	0	.00	6
2	215A	8,625.0	SF	F	S	0	0	0	.00	6
2	216A	7,570.0	SF	F	S	0	0	0	.00	6
2	218C	3,880.0	SF	F	S	0	0	0	.00	6
2	218D	6,065.0	SF	F	S	0	0	0	.00	6
2	219A	32,431.8	SF	F	S	0	0	0	.00	6
2	411G	1,200.0	GA	F	S	5	0	5	.00	4

Unclassified

Figure 3.3.1.4.1-4. Database Analysis for Satisfied Construction Requirements Report

Unclassified

DATABASE ANALYSIS FOR UNSATISFIED CONSTRUCTION REQUIREMENTS									PAGE - 1	
BCN	JCS	CAT	FACILITY			DATE	START	CMPNT	COMPONENTS NUMBER	PROJ TYPE
			QUANTITY REQUIRED	UOM	USING SERVICE					
2	OPRB		5,368.0	MN	F	F	5	112 XXXXXXXX	5,368.00	4
2	OPRB		1,100.0	MN	F	F	10	140 XXXXXXXX	1,100.00	4
2	OPRB		1,100.0	MN	F	F	15	181 XXXXXXXX	1,100.00	4
2	OPRB		3,305.0	MN	F	F	30	181 XXXXXXXX	3,305.00	4
2	OPRB		3,305.0	MN	F	F	45	181 XXXXXXXX	3,305.00	4
2	OPRB		3,305.0	MN	F	F	60	181 XXXXXXXX	3,305.00	4
2	OPRB		6,610.0	MN	F	F	90	181 XXXXXXXX	6,610.00	4
2	OPRB		6,610.0	MN	F	F	120	181 XXXXXXXX	6,610.00	4
2	OPRB		6,610.0	MN	F	F	150	181 XXXXXXXX	6,610.00	4
2	OPRB		6,610.0	MN	F	F	180	181 XXXXXXXX	6,610.00	4
2	214CB		2,700.0	SF	F	F	0	181 21401FB	1.00	6
2	432AB		6,553.3	CF	F	F	0	181 43203FB	1.00	6
2	432AB		17.0	CF	A	A	36	181 43190AC	1.00	12
2	432AB		14.5	CF	A	A	50	181 43190AB	1.00	12
2	432AB		16.0	CF	A	A	85	181 43190AC	1.00	12
2	432AB		17.0	CF	A	A	172	181 43190AC	1.00	12
8	OPRB		1,501.0	MN	F	F	60	142 XXXXXXXX	1,501.00	4
8	OPRB		3,002.0	MN	F	F	90	167 XXXXXXXX	3,002.00	4
8	OPRB		3,002.0	MN	F	F	120	181 XXXXXXXX	3,002.00	4
8	OPRB		3,002.0	MN	F	F	150	181 XXXXXXXX	3,002.00	4
8	OPRB		3,002.0	MN	F	F	180	181 XXXXXXXX	3,002.00	4
8	832AB		623.0	LF	F	F	-15	181 83203FB	2.08	12
8	832AB		870.0	LF	F	F	4	181 83203FB	2.90	12
8	832AB		870.0	LF	F	F	7	181 83203FB	2.90	12
8	832AB		900.0	LF	F	F	10	181 83203FB	3.00	12
8	832AB		890.0	LF	F	F	39	181 83203FB	2.97	12
8	832AB		950.0	LF	F	F	65	181 83203FB	3.17	12
8	832AB		850.0	LF	F	F	75	181 83203FB	2.83	12
8	832AB		910.0	LF	F	F	79	181 83203FB	3.03	12
8	832AB		970.0	LF	F	F	80	181 83203FB	3.23	12
8	832AB		980.0	LF	F	F	87	181 83203FB	3.27	12
8	832AB		850.0	LF	F	F	105	181 83203FB	2.83	12
8	832AB		980.0	LF	F	F	117	181 83203FB	3.27	12
8	832AB		870.0	LF	F	F	136	181 83203FB	2.90	12
8	832AB		970.0	LF	F	F	142	181 83203FB	3.23	12
8	832AB		850.0	LF	F	F	148	181 83203FB	2.83	12
8	832AB		880.0	LF	F	F	149	181 83203FB	2.93	12
8	832AB		950.0	LF	F	F	151	181 83203FB	3.17	12
8	832AB		910.0	LF	F	F	152	181 83203FB	3.03	12
8	832AB		1,770.0	LF	F	F	155	181 83203FB	5.90	12
52	842AB		4,499.0	LF	M	N	139	164 84210G	.99	12
52	842AB		4,587.0	LF	N	N	139	165 84210G	1.01	12
52	842AB		4,642.0	LF	N	N	153	166 84210G	1.02	12
52	722AC		6,272.0	SF	N	N	82	170 72210PC	.56	12

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Figure 3.3.1.4.1-5. Database Analysis for Unsatisfied Construction Requirements Report

### 3.3.1.4.2 Text Files

The Ada programs (*ajepes.x* and *djepes.x*) produce two text files (*Unschlld.Txt* and *Schlld.Txt*) used to

update the JEPES database.

### 3.3.1.5 Support

There are two functions that provide output: the Non-Unit Cargo and LSA functions.

#### 3.3.1.5.1 Non-Unit Cargo Function

The Non-Unit Cargo function provides two types of output: reports and text files:

- a. Report. The Non-Unit Cargo function produces the Non-Unit Cargo Shipment Requirements Report for an OPLAN (See Figure 3.3.1.5.1-1).
- b. Text File. The *logsafe.Txt* file provides Non-Unit Cargo information to be passed to LOGSAFE. The file format is shown in Table 3.3.1.5.1-1.

Table 3.3.1.5.1-1. LOGSAFE.TXT

Column	Contents Percentage Forces	Type	Range
1-5	OPLAN ID	C4	
6	Using Service	C1	
7-10	Base Primary Geoloc	C4	
11-12	Cyst Code	C2	
13-14	Subclass	C2	
15-1094	STONS to be Shipped	I6	0/999,999
1095-2174	MTONS to be Shipped	I6	0/999,999

Note: There is a record for each Base Complex considered. Output is in STON/MTONS per day over 180 days.

#### 3.3.1.5.2 LSA

The LSA function provides two types of output: graphs and text files.

- a. Graphs. Eight graphs are available, which show the percentage of theater-wide infrastructure (airfields, seaports, POL storage/distribution, non-POL storage/distribution, troop support, and utilities) available as a function of the requirements. All indicate this

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DEL	BCN	GEOLOC	BASE NAME	COUNTRY CODE	SERVICE	LAD	FAC CAT CODE	SUB CLS	PCT SHIPPED	STONS REQUIRED	STONS SHIPPED	MTONS REQUIRED
----- MTONS SHIPPED												
-----												
NO	2	LXEZ 13	KADENA AB	JA	AIR FORCE	34	211C	4A	20.0	18.0	3.6	63
NO	2	LXEZ 151	KADENA AB	JA	AIR FORCE	35	116D	4A	10.0	514.6	51.5	1,508
NO	2	LXEZ 3,710	KADENA AB	JA	AIR FORCE	49	111R	4A	10.0	1,200.0	120.0	37,100
NO	2	LXEZ 1	KADENA AB	JA	NAVY	60	124A	4A	10.0	3.0	0.3	6
NO	2	LXEZ 3,710	KADENA AB	JA	AIR FORCE	75	112R	4A	10.0	1,200.0	120.0	37,100
NO	2	LXEZ 0	KADENA AB	JA	AIR FORCE	112	OPR	4A	0.0	0.0	0.0	0
NO	2	LXEZ 1	KADENA AB	JA	NAVY	113	124A	4A	10.0	3.0	0.3	6
NO	2	LXEZ 0	KADENA AB	JA	AIR FORCE	140	OPR	4A	0.0	0.0	0.0	0
NO	2	LXEZ 1	KADENA AB	JA	NAVY	143	124A	4A	10.0	3.0	0.3	6
NO	2	LXEZ 3,710	KADENA AB	JA	AIR FORCE	181	111R	4A	10.0	1,200.0	120.0	37,100
NO	2	LXEZ 3,710	KADENA AB	JA	AIR FORCE	181	112R	4A	10.0	1,200.0	120.0	37,100
NO	2	LXEZ 8	KADENA AB	JA	AIR FORCE	181	214C	4A	20.0	42.0	8.4	41
NO	2	LXEZ 3	KADENA AB	JA	ARMY	181	432A	4A	40.0	0.0	0.0	7

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Figure 3.3.1.5.1-1. Non-Unit Cargo Shipment Requirements Report

value as a function of Commencement Day (C-Day), except one. These graphs are as follows:

1. Percentage Forces Sustainable: Lowest subelement percentage by time period (See Figure 3.3.1.5.2-1)
  2. Percent Available: Minimum percentage for each subelement throughout the whole time period (180 days); i.e., the worst case for each subelement (Figure 3.3.1.5.2-2)
  3. Percentage of subelement available over time:
    - Airfield (See Figure 3.3.1.5.2-3),
    - Seaport (See Figure 3.3.1.5.2-4),
    - POL storage/distribution (See Figure 3.3.1.5.2-5),
    - Non-POL storage/distribution (See Figure 3.3.1.5.2-6),
    - Troop support (See Figure 3.3.1.5.2-7), and
    - Utilities (See Figure 3.3.1.5.2-8).
- b. Text File.
1. *lsa.Txt*: This text file provides the LSA information to pass to the LSA. Record layout is shown in Table 3.3.1.5.2-1.

Table 3.3.1.5.2-1. LSA.TXT

Header Format			
Column	Contents	Type	Range
1	File Source ID	C1	'J(hardcoded)
2-6	Graph ID	C5	
7-18	OPLAN ID	C12	
19-24	Date	C6	
25-27	Num of Days	I3	0/365

File Format			
Column	Contents	Type	Range
1-3	Day	I3	0/365
4-9	Percent Capable	F3.2	0.0/999.99

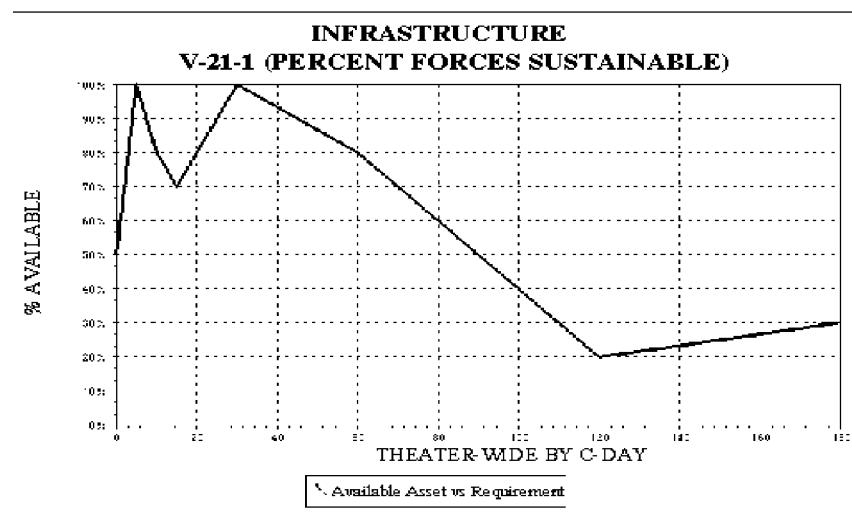


Figure 3.3.1.5.2-1. Percentage Forces Sustainable Graph

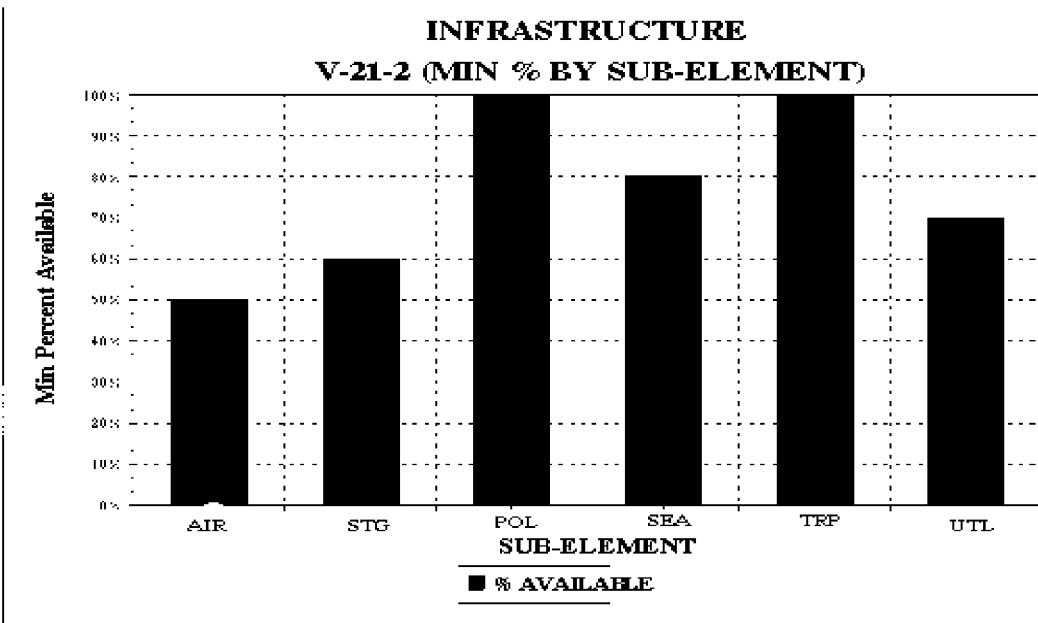


Figure 3.3.1.5.2-2. Percent Available Graph

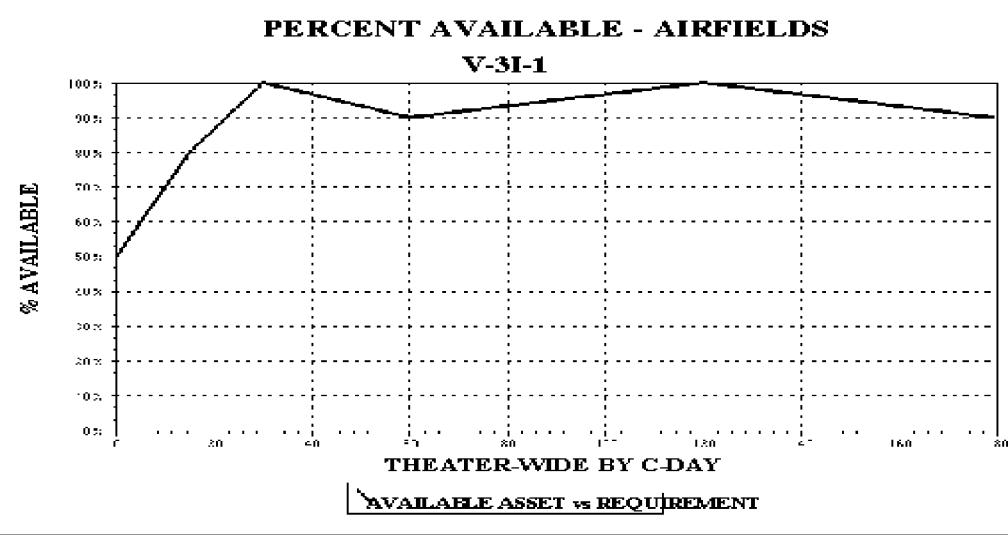


Figure 3.3.1.5.2-3. Percent of Airfields Available Over Time Graph

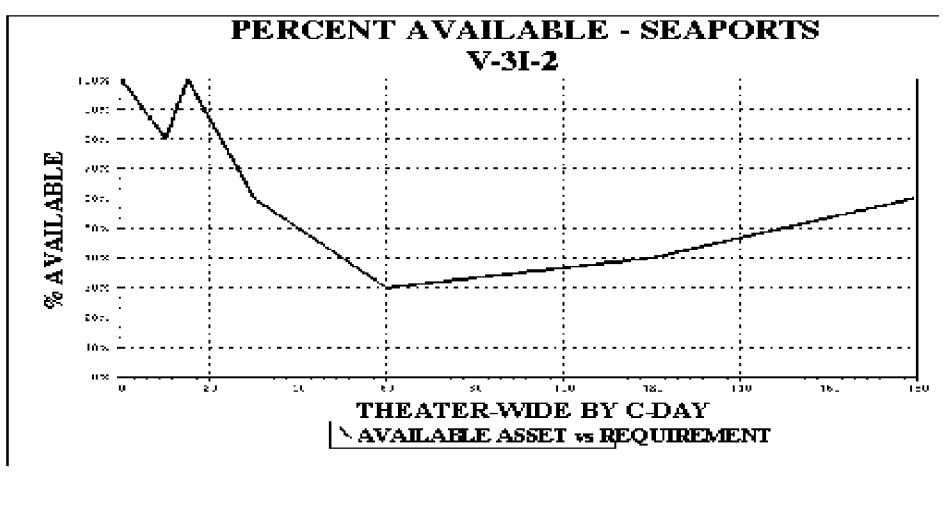


Figure 3.3.1.5.2-4. Percent of Seaport Available Over Time Graph

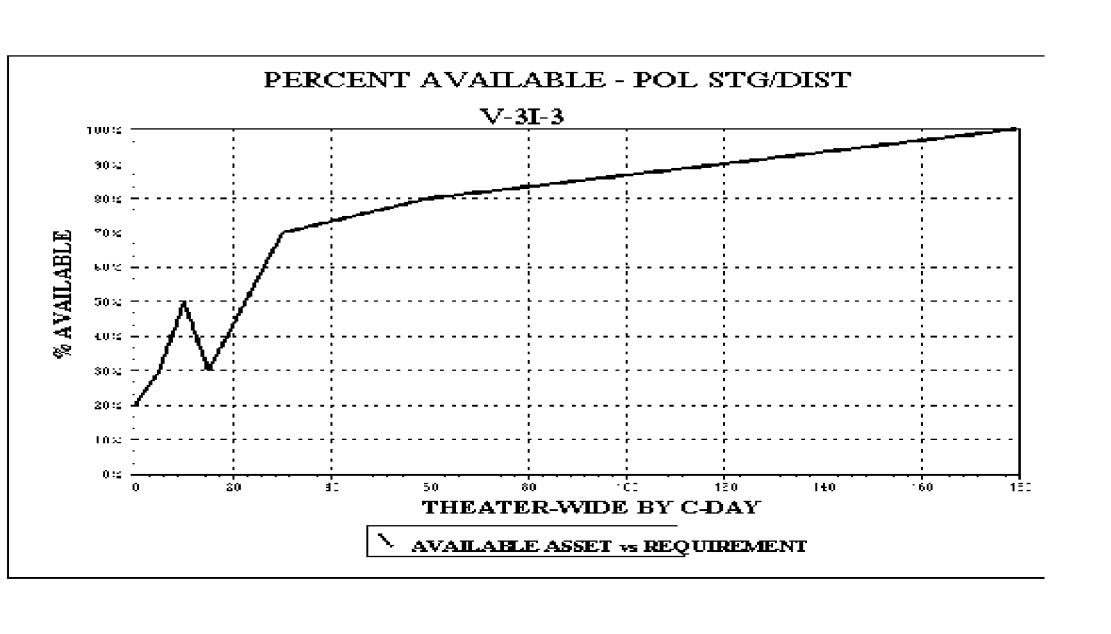


Figure 3.3.1.5.2-5. Percent of POL Storage/Distribution Available Over Time Graph

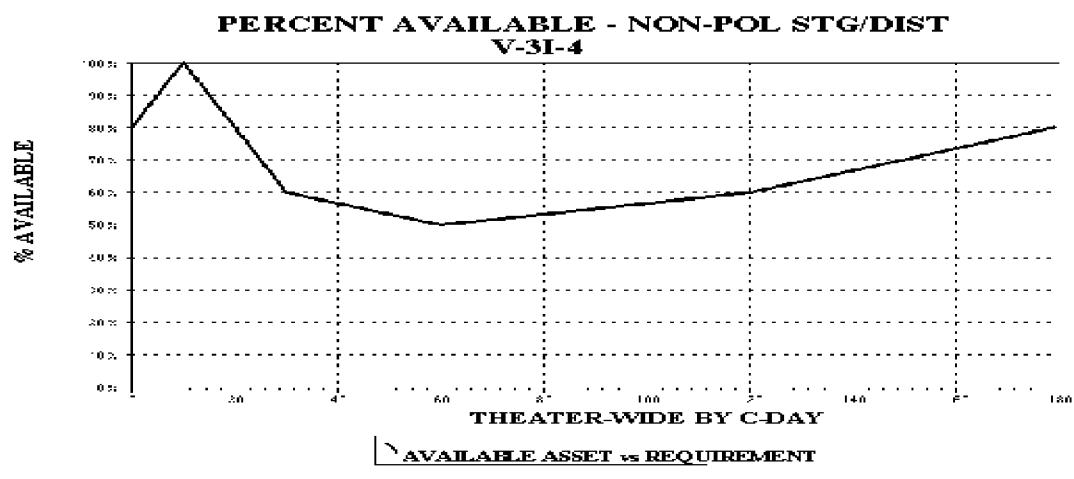


Figure 3.3.1.5.2-6. Percent of Non-POL Storage/Distribution Available Over Time Graph

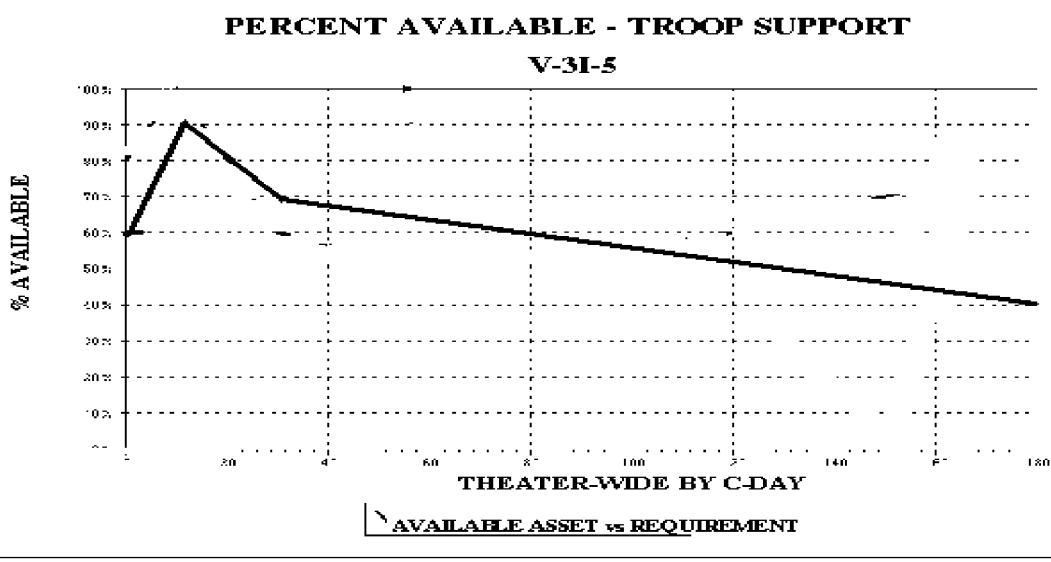


Figure 3.3.1.5.2-7. Percent of Troop Support Available Over Time Graph

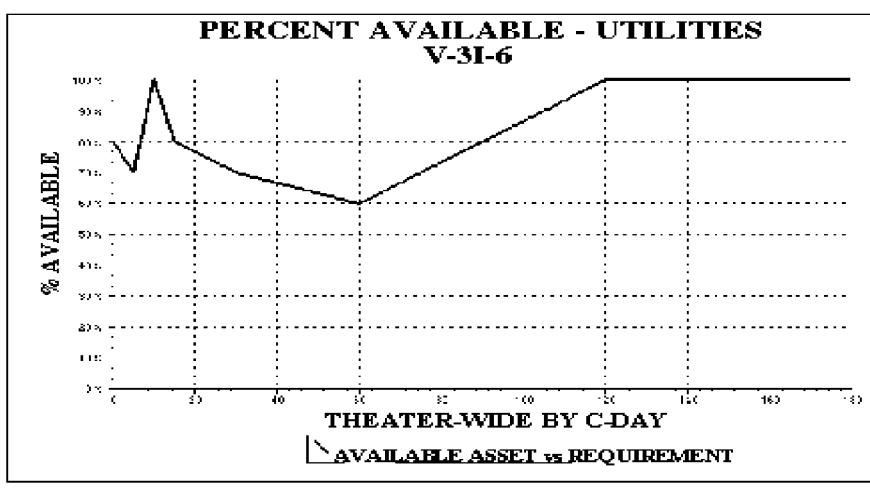


Figure 3.3.1.5.2-8. Percent of Utilities Available Over Time Graph

### **3.3.2 Sample Output**

Section 3.3.1 provides sample reports and graphs for output format. Appendix D provides additional definitions (See Table 3.3.1-1 for list of the basic output reports for JEPES). Appendix H provides tables that define the JEPES Codes used in the reports.

## **3.4 Utilization of System Output**

### **3.4.1 Database Analysis Verification**

These reports inform the user of the condition of the database. The reports should be reviewed whenever new data or editing has occurred before system operation. A major effort in this area will help reduce later data related problems.

### **3.4.2 Requirements Generation**

#### **3.4.2.1 Facility Requirements List**

This report is available for all or selected base complex lists facilities required by the OPLAN represented in the database.

#### **3.4.2.2 Graphs**

The available graphs are designed to give the user a quick, overall look at results of requirements generation before proceeding to the analysis phase. Thus, major unexpected requirements results may be found before time is spent on analyzing invalid requirements. See Section 3.3.1.3.2, Graphics, for a description of specific graphs available.

### **3.4.3 Requirements Analysis**

The Requirements Analysis outputs provide the user a comparison of requirements to the available assets. By various screen entries, the user may determine the overall engineering feasibility of an OPLAN, determine the detailed support available and not available for specific project types, and identify types of facility requirements. By selecting the utilization of only host nation support, the user may determine that contribution. These details may be determined by applying existing assets and determining the contribution gained with incoming engineering support. The specific reports are shown and described in Section 3.3.1.4.1.

### **3.4.4 Support**

#### **3.4.4.1 Non-Unit Cargo**

The Non-Unit Cargo shipment requirements provide the amounts of construction materials needed to support the effort calculated by the Requirements Analysis function. This information is useful for developing engineering requirements for the non-unit-cargo portion of the TPFDD. **Note:** Output given

is reflective of the input of generation and analysis of requirements. This report is also available as a text file for export to LOGSAFE.

#### **3.4.4.2 Logistic Sustainment Analysis**

This function provides graphical output that identifies the percentage of six subelements that are available. These graphs provide an overall quick-look capability to assist the user in determining what areas need a detailed review of JEPES reports.

### **3.5 Recovery and Error Correction Procedures**

Refer to Section 5.4 and Appendix C, Error Messages for detail of the Recovery and Error Correction procedures.

### **3.6 Communication Diagnostics**

JEPES operates within GCCS. Data transmission between the JOPES Core database and JEPES is accomplished using PL/SQL code. Any problems with accessing the JOPES Core database should be reported to the systems administrator.